

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: MAMMALIAN SWEET TASTE RECEPTORS, the specification of which was filed on 10 August 2001 and which received U.S. Serial Number 09/927,315.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign applications(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
			Yes <input type="checkbox"/> No <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/302,898	3 July 2001

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) of the Government of the United States of America as represented by the Secretary of the Department of Health and Human Services, Office of Technology Transfer, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

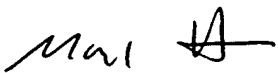
Robert Benson, Reg. No. 33,612
Steven M. Ferguson, Reg. N . 38,448
James C. Halght, Reg. No. 25,588
John P. Kim, Reg. N . 38,514

Susan S. Rucker, Reg. No. 35,762
David R. Sadowski, Reg. No. 32,808
Jack Spiegel, Reg. N . 34,477

Send Correspondence to Appointed Associate Attorney or Agent Address: Annette S. Parent TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8th Floor San Francisco, CA 94111-3834	Direct Telephone Calls and Facsimiles to Appointed Associate Attorney or Agent: Name: Annette S. Parent Reg. No.: 42,058 Telephone: 415/576-0200 Fax: 415/576-0300
--	---

Full Name of Inventor 1	Last Name Ryba	First Name Nicholas	Middle Name or Initial J. P.	
Residence & Citizenship	City Bethesda	State/Foreign Country Maryland	Country of Citizenship GB	
Post Office Address	Post Office Address 6405 Crane Terrace	City Bethesda	State/Country Maryland	Zip Code 20817
Full Name of Inventor 2	Last Name Hoon	First Name Mark	Middle Name or Initial A.	
Residence & Citizenship	City Kensington	State/Foreign Country Maryland	Country of Citizenship GB	
Post Office Address	Post Office Address 4218 Warner Street	City Kensington	State/Country Maryland	Zip Code 20895

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18 of the United States Code, Section 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1	Signature of Inventor 2
	
Nicholas J. P. Ryba	Mark A. Hoon
Date	Date 10/24/01

SF 1281287 v1

Please type a plus sign (+) inside this box →



PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT	Applicati n Number	09/927,315
	Filing Dat	August 10, 2001
	First Named Inventor	ZUKER <i>et al.</i>
	Title	MAMMALIAN SWEET TASTE RECEPTORS
	Group Art Unit	1645
	Examiner Name	Unassigned
	Attorney Docket Number	02307E-120110US

I hereby appoint:

☒ Practitioners at Customer Number 20350 →

Place Customer
Number Bar Code
Label here

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number →

<input type="checkbox"/> Firm or Individual Name					
Address					
Address					
City		State		ZIP	
Country					
Telephone		Fax			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record	
Name	Linda S. Stevenson
Signature	<i>Linda S. Stevenson.</i>
Date	December 10, 2001

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signatur is required, see below*.

☒ *Total of ONE forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
SF 1280705 v1

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

As the below named inventor(s), I/we declare that:

This declaration is directed to:

- ☐ The attached application, or
☒ Application No. 09/927,315 filed on August 10, 2001
☐ as amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application, if applicable; and

All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR(S)

Inventor 1 Charles S. Zuker Date: 10/31/01
Signature: [Signature] Citizen of: United States

Inventor 2 Gregory A. Nelson Date: 10/31/01
Signature: [Signature] Citizen of: United States

Inventor 3 Jayaram Chandrashekar Date: 10/31/01
Signature: [Signature] Citizen of: India

Inventor 4 Yifeng Zhang Date: 11/6/01
Signature: [Signature] Citizen of: China

☐ Additional inventors are being named on form(s) attached hereto.

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: MAMMALIAN SWEET TASTE RECEPTORS, the specification of which was filed on 10 August 2001 and which received U.S. Serial Number 09/927,315.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign applications(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
			Yes <input type="checkbox"/> No <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/302,898	3 July 2001

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) of the Government of the United States of America as represented by the Secretary of the Department of Health and Human Services, Office of Technology Transfer, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.


Robert Benson, Reg. No. 33,612
Steven M. Ferguson, Reg. No. 38,448
James C. Haight, Reg. No. 25,588
John P. Kim, Reg. No. 38,514

Susan S. Rucker, Reg. No. 35,762
David R. Sadowski, Reg. No. 32,808
Jack Spiegel, Reg. No. 34,477

Send Correspondence to Appointed Associate Attorney or Agent Address: Annette S. Parent TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8th Floor San Francisco, CA 94111-3834	Direct Telephone Calls and Facsimiles to Appointed Associate Attorney or Agent: Name: Annette S. Parent Reg. No.: 42,058 Telephone: 415/576-0200 Fax: 415/576-0300
---	--

Full Name of Inventor 1	Last Name Ryba	First Name Nicholas	Middle Name or Initial J. P.	
Residence & Citizenship	City Bethesda	State/Foreign Country Maryland	Country of Citizenship GB	
Post Office Address	Post Office Address 6405 Crane Terrace	City Bethesda	State/Country Maryland	Zip Code 20817
Full Name of Inventor 2	Last Name Hoon	First Name Mark	Middle Name or Initial A.	
Residence & Citizenship	City Kensington	State/Foreign Country Maryland	Country of Citizenship GB	
Post Office Address	Post Office Address 4218 Warner Street	City Kensington	State/Country Maryland	Zip Code 20895

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18 of the United States Code, Section 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1 	Signature of Inventor 2
Nicholas J. P. Ryba Date 10/29/01	Mark A. Hoon Date

SF 1281287 v1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RYBA *et al.*

Application No.: 09/927,315

Filed: August 10, 2001

For: MAMMALIAN SWEET TASTE
RECEPTORS

Examiner: Michael Brannock

Group Art Unit: 1646

APPOINTMENT OF ASSOCIATE
ATTORNEYS AND AGENTS BY
PRINCIPAL ATTORNEY OR AGENT
UNDER 37 CFR §1.34(b) AND
MPEP 402.02

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Under 37 CFR §1.34(b) and MPEP 402.02, the undersigned principal attorney or agent of record hereby appoints the following representatives from the law firm of TOWNSEND and TOWNSEND and CREW LLP, Two Embarcadero Center, 8th Floor, San Francisco, California 94111-3834, telephone: (415) 576-0200, as associate attorneys and/or patent agents in this application with full powers to prosecute this case and to transact all business in the Patent and Trademark Office connected therewith:

Scott L. Ausenhus, Reg. No. 42,271
Kevin L. Bastian, Reg. No. 34,774
Nathan Cassell, Reg. No. 42,396
Rosemarie L. Celli, Reg. No. 42,397
Guy Chambers, Reg. No. 30,617
M. Henry Heines, Reg. No. 28,219
Matthew E. Hinsch, Reg. No. 47,651
Laurence J. Hyman, Reg. No. 35,551
William M. Hynes, Reg. No. 24,168
William B. Kezer, Reg. No. 37,369
Joe Liebeschuetz, Reg. No. 37,505

Jean Lockyer, Reg. No. 44,879
Frank J. Mycroft, Reg. No. 46,946
Annette S. Parent, Reg. No. 42,058
Steven W. Parmelee, Reg. No. 31,990
Brian W. Poor, Reg. No. 32,928
Mark Sandbaken, Reg. No. 39,354
Peter Seperack, Reg. No. 47,932
Joseph R. Snyder, Reg. No. 39,381
Eugenia Garrett-Wackowski, Reg. No. 37,330
Kenneth A. Weber, Reg. No. 31,667

Dated: 8 Aug 2002

Respectfully submitted,

United States Department of Health and
Human Services

By


_____, Reg. No. 25,588

Office of Technology Transfer
National Institutes of Health
6011 Executive Boulevard, Suite 325
Rockville, Maryland 20852
Telephone: (301) 496-7056



UNITED STATES
PATENT AND
TRADEMARK OFFICE

ASP
02307E-120110US

FEBRUARY 08, 2002

PTAS

TOWNSEND AND TOWNSEND AND CREW LLP
ANNETTE S. PARENT, ESQ.
TWO EMBARCADERO CENTER, 8TH FLOOR
SAN FRANCISCO, CA 94111-3834

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



101922324A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/20/2001

REEL/FRAME: 012373/0233

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ZUKER, CHARLES S.

DOC DATE: 10/31/2001

ASSIGNOR:

NELSON, GREGORY A.

DOC DATE: 10/31/2001

ASSIGNOR:

CHANDRASHEKAR, JAYARAM

DOC DATE: 10/31/2001

ASSIGNOR:

ZHANG, YIFENG

DOC DATE: 11/07/2001

ASSIGNOR:

RYBA, NICHOLAS J.P.

DOC DATE: 10/24/2001

ASSIGNOR:

HOON, MARK A.

DOC DATE: 10/24/2001

ASSIGNEE:

REGENTS OF THE UNIVERSITY OF
CALIFORNIA, THE
1111 FRANKLIN STREET, 12TH FLOOR
OAKLAND, CALIFORNIA 94607

ASSIGNEE:

GOVERNMENT OF THE UNITED STATES OF
AMERICA AS REPRESENTED BY THE
SECRETARY OF THE DEPARTMENT OF
HEALTH AND HUMAN SERVICES, THE
NATIONAL INSTITUTES OF HEALTH-OTT
6011 EXECUTIVE BLVD., SUITE 325
ROCKVILLE, MARYLAND 20852

SERIAL NUMBER: 09927315
PATENT NUMBER:

FILING DATE: 08/10/2001
ISSUE DATE:

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

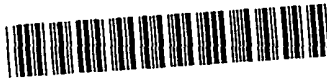
12-20-2001

Attorney Docket No. 02307E-120110US

Form PTO-1595

(Rev. 03-01)

OMB No. 0651-0027 (exp. 5/31/2002)



heet

U.S. Department of Commerce
U.S. Patent and Trademark Office

Tab settings ⇌ ⇌ ⇌ ▼

101922324

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Charles S. Zuker; Gregory A. Nelson; Jayaram Chandrashekar;
Yifeng Zhang; Nicholas J.P. Ryba; and Mark A. HoonAdditional name(s) of conveying parties attached? ☐ Yes ☒ No.

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other: _____

Execution Date: Oct. 31, 2001; Oct. 31, 2001; Oct. 31, 2001;
Nov. 7, 2001; Oct. 24, 2001; and Oct. 24, 2001

2. Name and address of receiving party(ies)

Name: The Regents of the University of CaliforniaStreet Address: 1111 Franklin Street, 12th FloorCity: Oakland State: California ZIP: 94607Name: The Government of the United States of America
as represented by the Secretary of the Department of Health
and Human ServicesInternal Address: National Institutes of Health - OTTStreet Address: 6011 Executive Blvd., Suite 325City: Rockville State: Maryland ZIP: 20852Additional names and addresses attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s).

If this document is being filed together with a new application, the execution date of the application is: N/AA. Patent Application No(s): 09/927,315

B. Patent No(s): _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Annette S. Parent, Esq.
TOWNSEND AND TOWNSEND AND CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(415) 576-02006. Total number of applications and patents involved ONE7. Total fee (37 CFR 3.41): \$40.00☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number: 20-1430

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.*Annette S. Parent
Name of Person Signing
Atty. Reg. No. 42,058Annette S. Parent
SignatureDecember 19, 2001
DateTotal number of pages including cover sheet, attachments and document TWOMail documents to be recorded with required cover t :
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Charles S. Zuker of 4778 Thurston Place, San Diego, CA 92130; Gregory A. Nelson of 4852 Cape May, San Diego, CA 92107; Jayaram Chandrashekar of 7536 Charmant Drive, #1127, San Diego, CA 92122; Yifeng Zhang of 4083-D Miramar Street, La Jolla, CA 92037; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: MAMMALIAN SWEET TASTE RECEPTORS

Date(s) of execution of Declaration:

Filing Date: August 10, 2001

Application No.: 09/927,315; and

WHEREAS, The Regent of the University of California, a university of the state of California, located at Office of Technology Transfer, 1111 Franklin Street, 12th Floor, Oakland, CA, 94607-5200, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

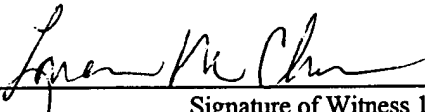
IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 10/31/01


Charles S. Zuker

SIGNATURE WITNESSED BY:

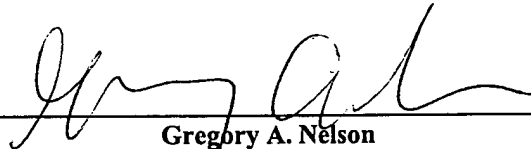
(1) Date: 10/31/01


Signature of Witness 1

(2) Date: 10/31/01

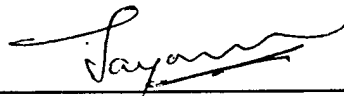

Signature of Witness 2

Dated: 10/31/01

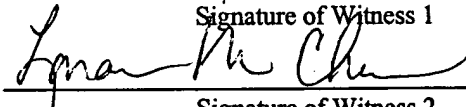

Gregory A. Nelson

SIGNATURE WITNESSED BY:

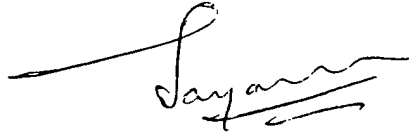
(1) Date: 10/31/01


Signature of Witness 1

(2) Date: 10/31/01


Signature of Witness 2

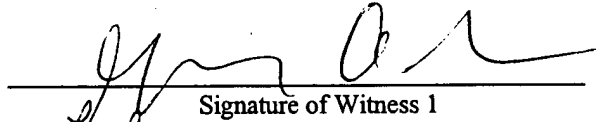
Dated: 10/31/01



Jayaram Chandrashekar

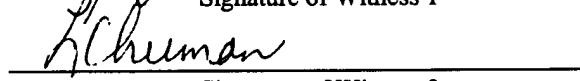
SIGNATURE WITNESSED BY:

(1) Date: 10/31/01



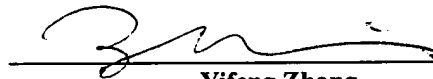
Signature of Witness 1

(2) Date: 10/31/01



Signature of Witness 2

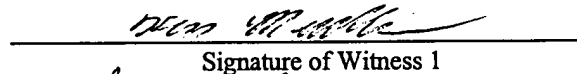
Dated: 11/7/01



Yifeng Zhang

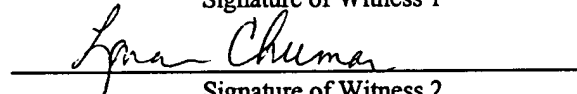
SIGNATURE WITNESSED BY:

(1) Date: 11/7/01



Signature of Witness 1

(2) Date: 11/7/01



Signature of Witness 2

ASSIGNMENT

JOINT

WHEREAS, We, **Nicholas J. P. Ryba** of 6405 Crane Terrace, Bethesda, Maryland, 20817, a citizen of Great Britain; **Mark A. Hoon** of 4218 Warner Street, Kensington, Maryland, 20895, a citizen of Great Britain; all inventors being employees of the Department of Health and Human Services at the time the invention was made, have invented: **MAMMALIAN SWEET TASTE RECEPTORS**, for which an application to the Assistant Commissioner for Patents for grant of Letters Patents of the United States of America has been executed by the undersigned

☐ on (date(s) Declaration signed):

☒ is identified as U.S. Patent Application:
Serial No. 09/927,315

Filed ; and

WHEREAS, the conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest herein, both domestic and foreign; and

WHEREAS, the Government of the United States of America is desirous of acquiring all domestic and foreign right, title, and interest in the aforesaid invention described in the aforesaid application for Letters Patent of the United States of America; and

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, we the undersigned, have sold, assigned, and transferred and by these presents do sell, assign, and transfer unto The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services (hereinafter **THE GOVERNMENT**), and his successors, the full and exclusive right, title, and interest throughout the United States of America, its territories and dependencies, and within each and every foreign country in which **THE GOVERNMENT** elects to file the invention described in the aforesaid application for Letters Patent of the United States of America, and all Letters Patents and Registrations which may be granted on the same in the United States of America and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

AND, we hereby authorize and request the Assistant Commissioner for Patents to issue said Letters Patent to **THE GOVERNMENT** as assignee of the entire right, title, and interest in and to

the same throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file, for the sole use for the full term or terms for which said Letters Patent and Registrations may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof which may be granted as fully and entirely as the same would have been held by us, had this assignment not been made;

AND, we hereby warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied with respect to the aforesaid application for Letters Patent which will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of this instrument by us;

AND, we hereby agree to execute any and all applications for Letters Patent in the United States of America and foreign countries, and to furnish and deliver to the Secretary, Department of Health and Human Services, upon request, all data and documents, and to execute any papers which may be necessary for the prosecution of any application or applications of Letters Patent or for THE GOVERNMENT to exercise its rights granted hereunder, including communicating to THE GOVERNMENT, its representatives or agents, any facts relating to said invention, including evidence for interference purposes, or for other proceedings, whenever requested, to testify in any interference or other proceedings, whenever requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon our heirs, legal representatives, administrators and assigns, and we shall assist THE GOVERNMENT in every way as may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by THE GOVERNMENT.

The undersigned hereby grants THE GOVERNMENT or the law firm of Townsend and Townsend and Crew LLP, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Nicholas J. Ryba
Nicholas J. P. Ryba

10/24/01
(date)

STATE OF MARYLAND)

COUNTY OF MONTGOMERY)
Prince Georges

UNITED STATES OF AMERICA

On October 24th 2001, before me, Hilda K Chamorro (here insert name and title of the officer), personally appeared Nicholas J. P. Ryba, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, execute the instrument.

WITNESS my hand and official seal.

Signature

Hilda K Chamorro

(Seal)

HILDA K. CHAMORRO
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires July 18, 2004

Mark A. Hoon
Mark A. Hoon

10/24/01
(date)

STATE OF Maryland)
COUNTY OF Prince Georges)

UNITED STATES OF AMERICA

On October 24 2001, before me, Hilda K. Chamorro (here insert name and title of the officer), personally appeared Mark A. Hoon, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, execute the instrument.

WITNESS my hand and official seal.

Signature

Hilda K. Chamorro

(Seal)

HILDA K. CHAMORRO
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires July 18, 2004

SF 1281298 v1

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Charles S. Zuker, Gregory A. Nelson, Jayaram Chandrashekar, and Yifeng Zhang

Application No./Patent No.: 09/927,315 Filed/Issue Date: August 10, 2001

Entitled: MAMMALIAN SWEET TASTE RECEPTORS

The Regents of the University of California, a University

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

December 10, 2001
Date

Linda S. Stevenson
Signature

Linda S. Stevenson
Typed or printed name
Manager, Patent Prosecution

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Charles S. Zuker of 4778 Thurston Place, San Diego, CA 92130; Gregory A. Nelson of 4852 Cape May, San Diego, CA 92107; Jayaram Chandrashekar of 7536 Charmant Drive, #1127, San Diego, CA 92122; Yifeng Zhang of 4083-D Miramar Street, La Jolla, CA 92037; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: MAMMALIAN SWEET TASTE RECEPTORS

Date(s) of execution of Declaration:

Filing Date: August 10, 2001

Application No.: 09/927,315; and

WHEREAS, The Regent of the University of California, a university of the state of California, located at Office of Technology Transfer, 1111 Franklin Street, 12th Floor, Oakland, CA, 94607-5200, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

NOT FOR RECORDATION

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 10/31/01



Charles S. Zuker

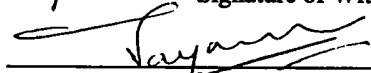
SIGNATURE WITNESSED BY:

(1) Date: 10/31/01



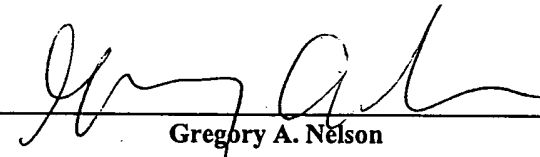
Signature of Witness 1

(2) Date: 10/31/01



Signature of Witness 2

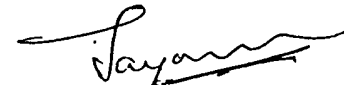
Dated: 10/31/01



Gregory A. Nelson


SIGNATURE WITNESSED BY:

(1) Date: 10/31/01



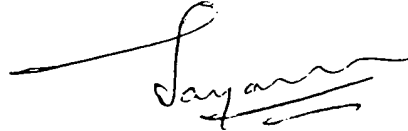
Signature of Witness 1

(2) Date: 10/31/01



Signature of Witness 2

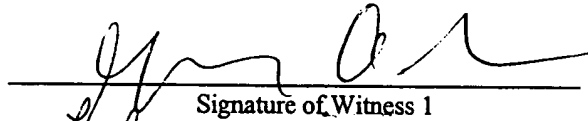
Dated: 10/31/01



Jayaram Chandrashekar

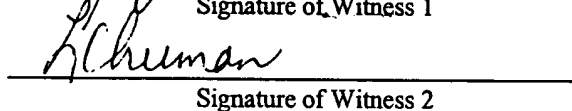
SIGNATURE WITNESSED BY:

(1) Date: 10/31/01



Signature of Witness 1

(2) Date: 10/31/01



Signature of Witness 2

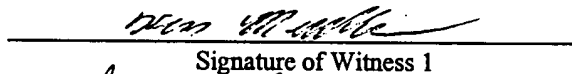
Dated: 11/7/01



Yifeng Zhang

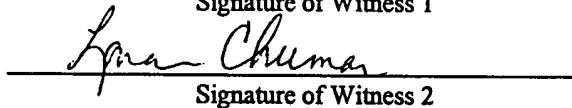
SIGNATURE WITNESSED BY:

(1) Date: 11/7/01



Signature of Witness 1

(2) Date: 11/7/01



Signature of Witness 2